

WHAT IS CLAIMED:

- 5 1. A wheel suspension for a motor vehicle with a transverse leaf spring arranged transversely to the vehicle and connected to a body of the vehicle via at least one transverse leaf spring bearing articulately connected to at least one wheel carrier, wherein the transverse leaf spring has two portions connected via a first arc.
- 10 2. The wheel suspension as claimed in claim 1, wherein the transverse leaf spring has a second arc curved in a direction opposite that of the first arc.
3. The wheel suspension as claimed in claim 1, wherein the transverse leaf spring is articulated at opposite ends on a wheel carrier.
- 15 4. The wheel suspension as claimed in claim 1, wherein the transverse leaf spring has, in a middle region, a flat cross section and, in a wheel-side end region, a non-flat cross section.
- 20 5. The wheel suspension as claimed in claim 4, wherein the non-flat cross section is selected from a group comprising square and round shapes.
6. The wheel suspension as claimed in claim 1, wherein the transverse leaf spring consists of glass fibers embedded in epoxy resin.
- 25 7. The wheel suspension as claimed in claim 1, wherein at least one portion of the transverse leaf spring is reinforced by fibers wound around a core.
8. The wheel suspension as claimed in claim 1, wherein at least one end of the transverse leaf spring is coupled to a longitudinal link mounted on the motor vehicle body.
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9. The wheel suspension as claimed in claim 1, wherein the wheel carrier is mounted on the motor vehicle body via at least one of an A-frame arm and a damper strut.

5 10. The wheel suspension as claimed in claim 1, wherein the transverse leaf spring bearing has a thickening surrounding the transverse leaf spring and the axial ends of which consist of planar surface pieces.

10 11. The wheel suspension as claimed in claim 10, wherein the thickening is surrounded by a casing consisting of elastic material which is framed in a housing shell.

15 12. The wheel suspension as claimed in claim 11, wherein the elastic material is rubber.